The Journal

of

The Indian Botanical Society

VOL. XXXV-1956



EDITORIAL BOARD

T. S. Sadasivan, Editor-in-Chief

Director, Botany Laboratory, University of Madras

P. Maheshwari

Delhi University

B. P. Pal

New Delhi

A. C. Joshi

Chandigarh

S. Ranjan

Allahabad University

M. Sayeed-ud-Din

Osmania University

B. Samantarai

Utkal University

A. Abraham

Travancore University

R. Misra

Banaras Hindu University

J. Venkateswarlu

Andhra University

Published by the Indian Botanical Society

The Journal

10.

he Indian Bolanical Secrety

VOLT XXXX-10V



WHATE MANUFACE

Samuel Sa

All Property lies and the last of the last

without the same of the same o

The second of the second of

STATE OF THE PARTY OF THE PARTY

and the second second second

CONTENTS

Volume 35, 1956

No. 1

	PAGE
The Botanical Exploration of IndiaSantapau, H.	1
Production and Systematic Translocation of Fusaric Acid in Fusarium Infected Cotton Plants	
	7
Studies on Colchicine induced Tetraploids of Corchorus olitorius Linn. (Jute)	11
Some Slime-Moulds from Southern India—IV. Agnihothrudu, V.	27
Fungi Isolated from Rhizosphere. II. Starkeyomyces, A New Genus of the TuberculariaceæAgnihothrudu, V.	38
Hitherto Unreported Hosts of Dendrophthæ falcata (L. F.) Ettings	43
Soil Conditions and Root Diseases. XVI. Colonization and Survival of <i>Macrophomina phaseoli</i> (Maubl.) Ashby in Trace Element Amended Soils	47
Hyphomycetes—ISubramanian, C. V.	53
The Clavariaceæ of the Mussoorie Hills—I	
Thind, K. S. and Anand, G. P. S.	92
On Two New Species of <i>Terminalioxylon</i> Schoenfeld from the Tertiary of South Arcot District, Madras	
	103
Sapucchaka, A New Genus of the Hemisphæriales	
	114
Natural Regeneration in <i>Pogonatum</i> Palis	117
Probable Factors Responsible for Formation of Sporogonia in Mannia indica St. and Asterella pathankotensis Kash	
	120
point Proportion	123
Embryology of the Passifloraceæ. I. Gametogenesis and Seed Development of Passiflora calcarata MastRaju, M. V. S.	126

	No. 2	IAGE
	On Factors Influencing Fruit-set and Sterility in Arecanut (Areca catechu Linn.). I. Studies on Pollen Grains	
		139
V	Additions to Our Knowledge of Rusts of Hyderabad—II Salam, M. A. and Ramachar, P.	152
	Observations on Inter-Racial Rice Hybrids-The japonica-indica	
	Rice HybridisationSubramanyam, K. N. and Roy, S. K.	158
	Some Unreported Ferns of BiharMehta, A. S.	165
	The Hydrophytes of Cuttack	167
V	The Clavariaceæ of the Mussoorie Hills—III	
	Thind, K. S. and Anand, G. P. S.	171
	The Gametophytes of Lycium europæum LinnJain, T. C.	181
	Studies in the Family Euphorbiaceæ. I. The Gametophytes of Chrozophora rottleri A. Juss	189
	A Contribution to the Knowledge of Fresh-Water Diatomaceæ	
	of South-Western India. I. Fresh-Water Diatoms of Dharwar	194
/	Some Slime-Moulds from Southern India-V. Agnihothrudu, V.	210
	Studies in the Meliaceæ. I. Development of the Embryo in Azadirachta indica A. Juss	222
/	On the Genus Amphichæta McAlpine	
	Subramanian, C. V. and Ramakrishnan, K.	226
	Studies on the Cytology and Phylogeny of the Pteridophytes. I Observations on the Marattiacex Ningn C A	
	Observations on the MarattiaceæNinan, C. A.	255
	No. 3	15
	Ferns of Parasnath, Bihar	241
	Some New Record of Plants from the Parasnath Hill	245
	Studies on the Cytology and Phylogeny of the Pteridophytes. III.	
	Observations on Osmunda regalis LNinan, C. A.	248
	Studies on the Cytology and Phylogeny of the Pteridophytes. IV. Systematic Position of Ceratopteris thalictroides (L.)	odle.
	Brongn	252

	PAGE
Fossil Silicoflagellates from Colebrook and Nancoori Islands Desikachary, T. V. and Maheshwari, C. L.	257
Annual Foray of the Indian Botanical Society to Bund Bareta, Agra, on January 7, 1956	265
Studies on Indian PoriaPuri, Y. N.	277
Fossil Woods of Euphorbiaceæ from the Tertiary Rocks of South Arcot District, MadrasRamanujam, C. G. K.	284
On the Recent Introductions in the Flora of Purnea (Bihar)	308
The Clavariaceæ of the Mussoorie Hills—IV	323
Studies in Pteridaceæ. II. Hemionites LinnNayar, B. K.	333
Morphology of the Pachytene Chromosomes and Meiosis in Sorghum subglabrescens, a Eu-Sorghum	244
Contribution to the Ecology of Teak (<i>Tectona grandis</i> Linn. f.) in Madhya Pradesh	344
No. 4	
Glæotilopsis planctonica Gen. et Sp. Nov., A New Member of the UlotrichaceæIyengar, M. O. P. and Philipose, M. T.	365
On Sexual Reproduction in a New Species of Golenkinia	371
Observations on the Anatomy, Cytology, Development of the Reproductive Structures, Fertilization and Embryology of <i>Pelvetia canaliculata</i> Dene. et Thur. Part I. Anatomy of	
the Thallus and Somatic MitosisSubrahmanyan, R.	374
The Vegetation of Patna District (Bihar)Srivastava, J. G.	391
A Preliminary Account of the Soil Diatom Flora of Kolhapur Gandhi, H. P.	402
Growth of Colletotrichum capsici in Pure Culture. Durairaj, V.	409
Glowin of Concreti terms cupies in	403
Amino Acid Changes in the Healthy and 'Foot-Rot' Infected Rice (Oryza sativa L.). Andal, (Miss) R. and Subba Rao, N. S. The Embryo Sac and Endosperm of Blyxa orizetorum Hook. f.	414

		PAG
	Sporeling Germination and Vegetative Reproduction in Chilo- scyphus himalayensis Kash. and Cololejeunea sp	423
	Some Abnormal Pollen Grains of Picea smithiana Boiss	
	Lakhanpal, R. N. and Nair, P. K. K.	426
	Plant Types of the Ponds of the Lower Damodar Valley	
	Kachroo, P.	430
4	Hyphomycetes—IISubramanian, C. V.	446
	Plant Ecology of Bikaner and Its Adjacent Areas in Comparison	
	with the Rest of Western RajasthanJoshi, M. C.	495
/	The Clavariaceæ of the Mussoorie Hills-V	
		512
	Felix Eugen Fritsch, 1879–1954	522